## Team Developer 5.1 SP5 Release Notes.

## **Unicode Support**

With the advent of Unicode support in TD5.1, many user applications using Sal APIs that deal with strings will need to be reviewed. For instance, TD automatically converts strings to Unicode when selecting data from database columns or reading strings from a file. Thus, complications may arise if the application code has dependencies on string sizes.

## Example:

Function GetDataLength

Description: Get the data length in bytes without end separator

Returns Number: Parameters String: sPar Actions

Return SalGetBufferLength(sPar) - 1! Worked with older versions (i.e. before 5.1)

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## Actions

Set sInput = 'CAR'

Set nLen1 = SalGetBufferLength(sInput) ! Length is 8

Call SalStrToMultiByte(sInput,sOutput,ENC\_UTF8)

Set nLen2 = GetDataLength(sOutput) ! Length is 3

If SalFileOpen(hFile, 'newfile.txt', OF\_Create | OF\_Write | OF\_Binary)

Call SalFileWrite(hFile,sOutput,nLen2)

Call SalFileClose(hFile)

If SalFileOpen(hFile, 'newfile.txt', OF\_Read | OF\_Binary)

Call SalFileRead( hFile, sOutput, 100 )

Set nLen3 = GetDataLength(sOutput) ! length is 4 because sAnsi has two trailing 0x00 bytes

bytes

Call SalFileClose(hFile)

The issue here is the fact that we only want the string "CAR" written and read from a file.

The above code does the write correctly but the read incorrectly.

In order to make the above code work, the function GetDataLength needs to know if the string passed in is a unicode or an ascii string.

If it is a ascii string, we subtract 1. If it is a unicode string, we subtract 2.

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